

THEME
PARK

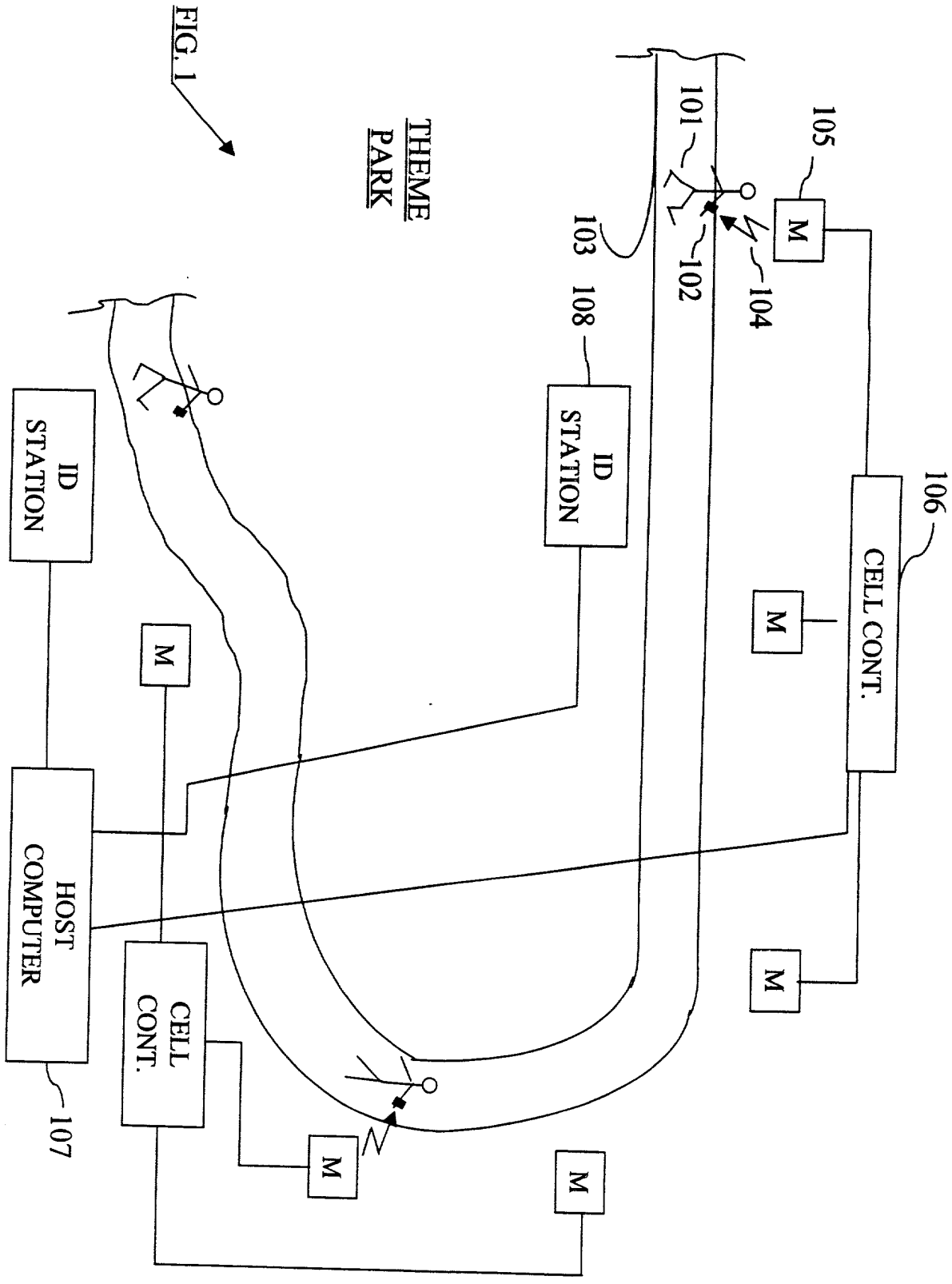


FIG. 1 is a schematic diagram of a system for a theme park. The system includes a host computer (107) connected to two ID stations (109, 110) and a cell controller (106). The cell controller (106) is connected to the host computer (107) and several modules (M) (105, 104, 103, 108, 102, 101, 100) distributed along a track. The track layout includes a loop and a straight section. The ID stations (109, 110) are located at the top and bottom of the track, respectively. The modules (M) are connected to the cell controller (106) and the host computer (107).

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FIG. 2

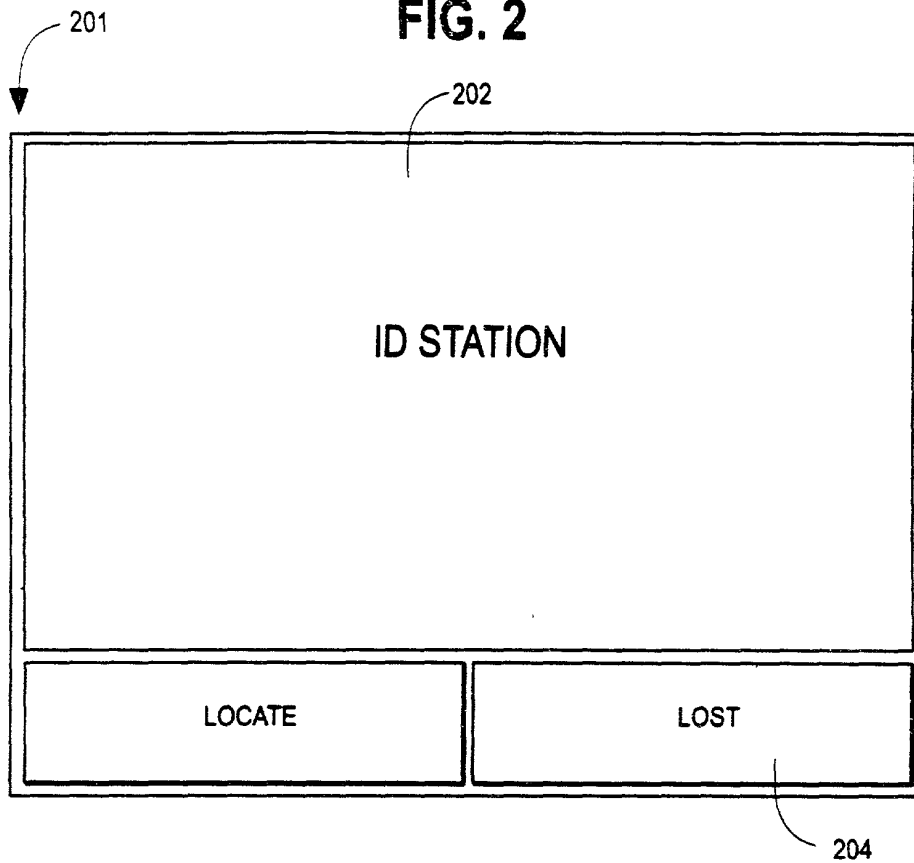
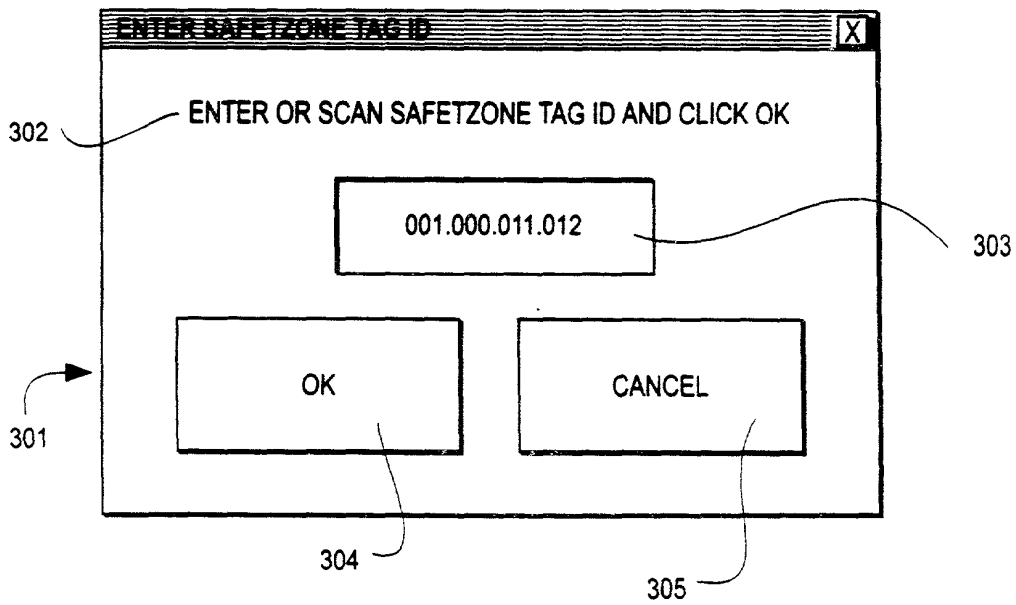
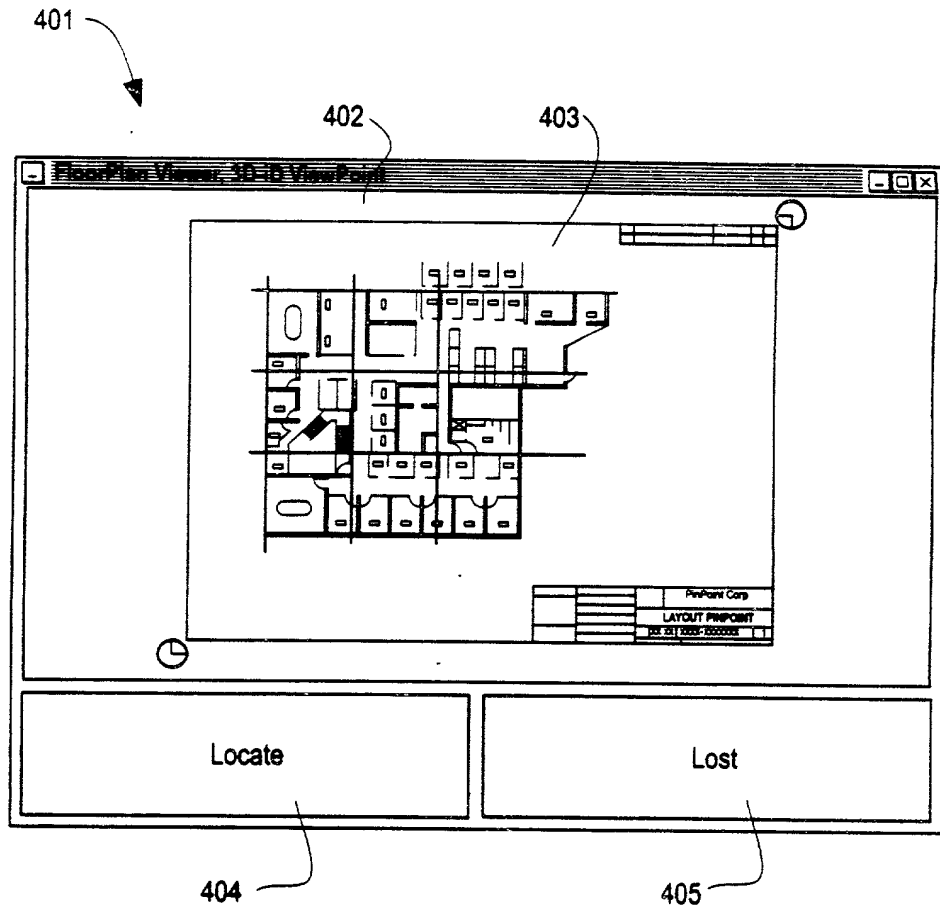


FIG. 3



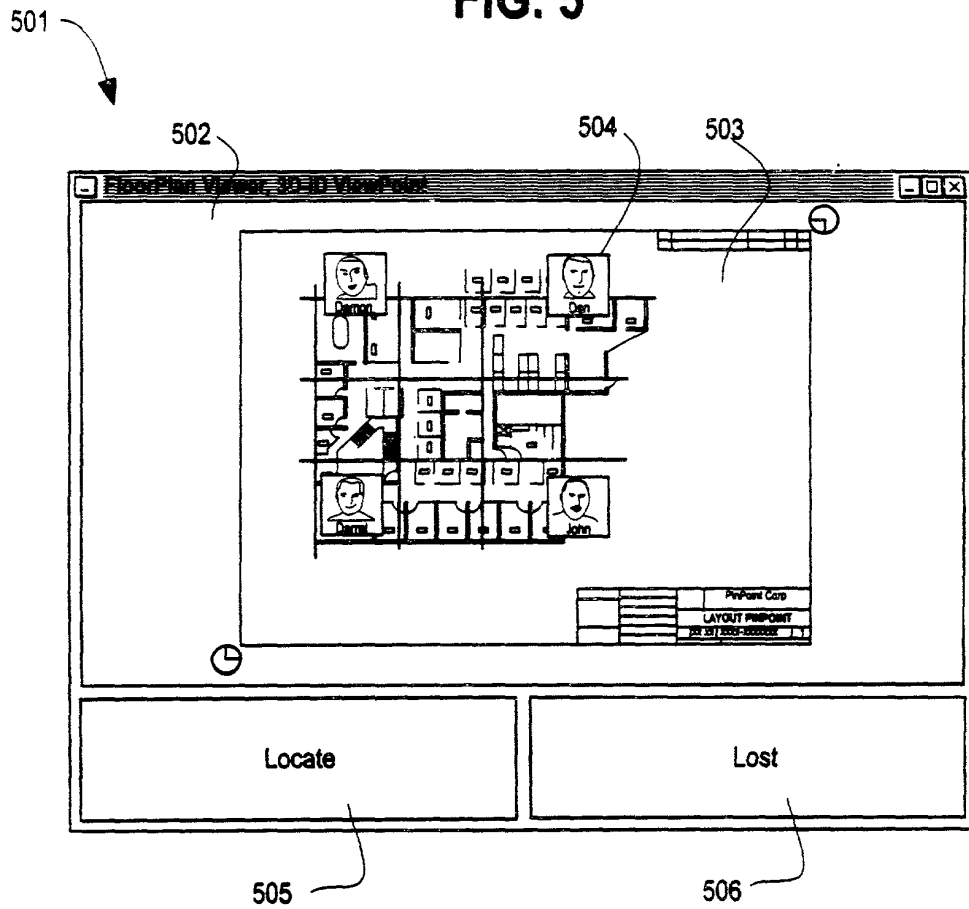
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FIG. 4



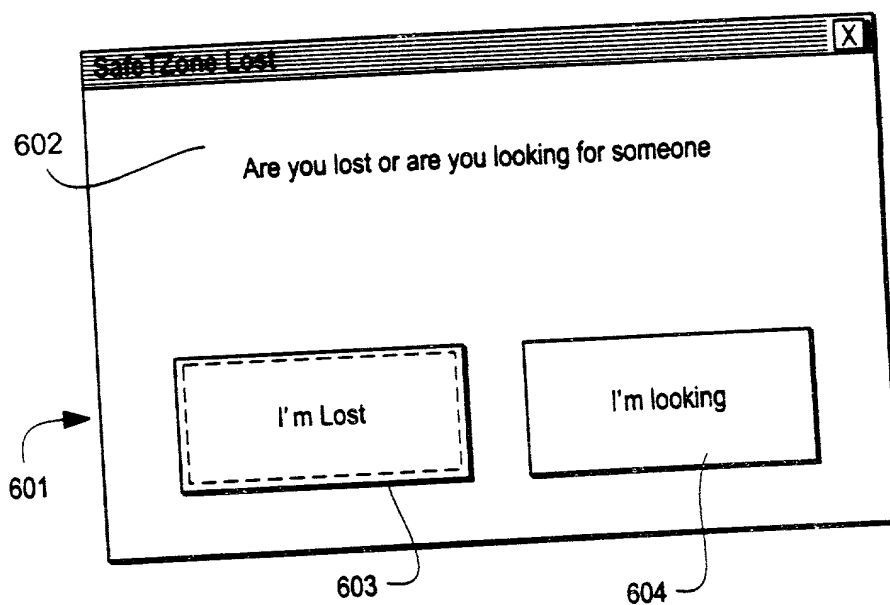
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FIG. 5



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FIG. 6



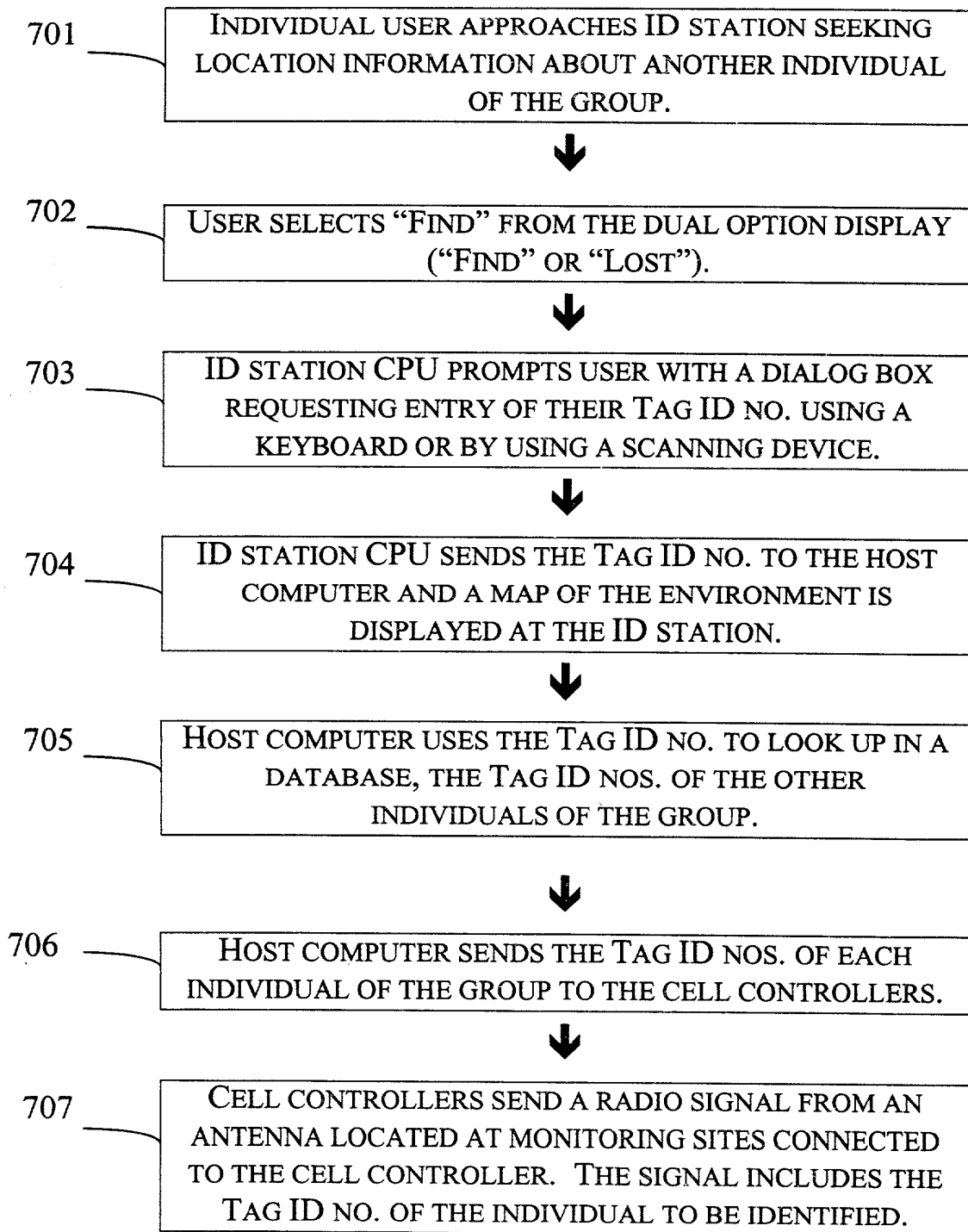


FIG. 7 (CONT)

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708

THE INDIVIDUAL WEARING THE TAG ID NO. OF THE RADIO SIGNAL RECEIVES THE SIGNAL AND THE TAG RESPONDS BY TRANSMITTING A RETURN SIGNAL CONTAINING THE TAG ID NO.



709

THE MONITORING SITES RECEIVE THE SIGNAL FROM THE TAG ID AND THEN SEND IT TO THE CELL CONTROLLER.



710

CELL CONTROLLERS CALCULATE TAG TO ANTENNA DISTANCE BASED ON THE TIME BETWEEN SENDING THE SIGNAL FROM THE MONITORING SITES AND RECEIVING THE RETURN SIGNAL FROM THE TAG ID AT THE MONITORING SITES.



711

CELL CONTROLLERS SEND TAG TO ANTENNA DISTANCE INFORMATION TO THE HOST COMPUTER WHICH USES THIS TO COMPUTE THE LOCATION OF THE INDIVIDUAL IN THE ENVIRONMENT.



712

HOST COMPUTER SENDS THE LOCATION INFORMATION TO THE REQUESTING ID STATION CPU FOR EACH INDIVIDUAL OF THE GROUP, THE IDENTITY OF WHICH IS DISPLAYED AS AN ICON WITH A PICTURE ON THE MAP AT THE ID STATION.

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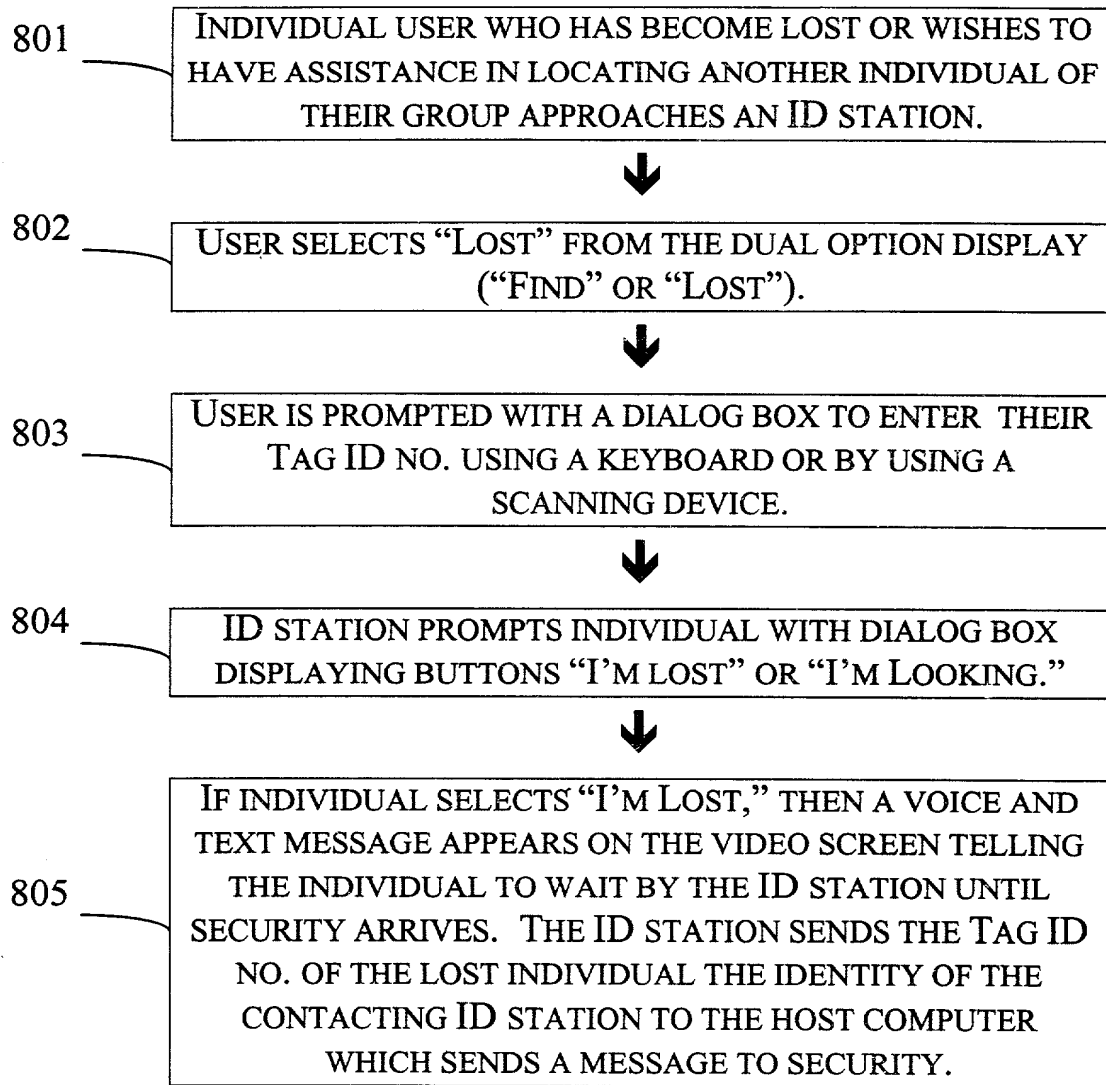


FIG. 8 (CONT)

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806

IF THE USER SELECTS "I'M LOOKING," THEN THE HOST COMPUTER USES THE SYSTEM TO DETERMINE THE IDENTITY OF ALL MEMBERS OF THE GROUP AND SENDS A MAP FOR DISPLAY AT THE ID STATION.



807

THE USER THEN SELECTS THE INDIVIDUAL THEY WISH TO MEET BY CLICKING OR TOUCHING THE ICON OF THE INDIVIDUAL ON THE MAP.

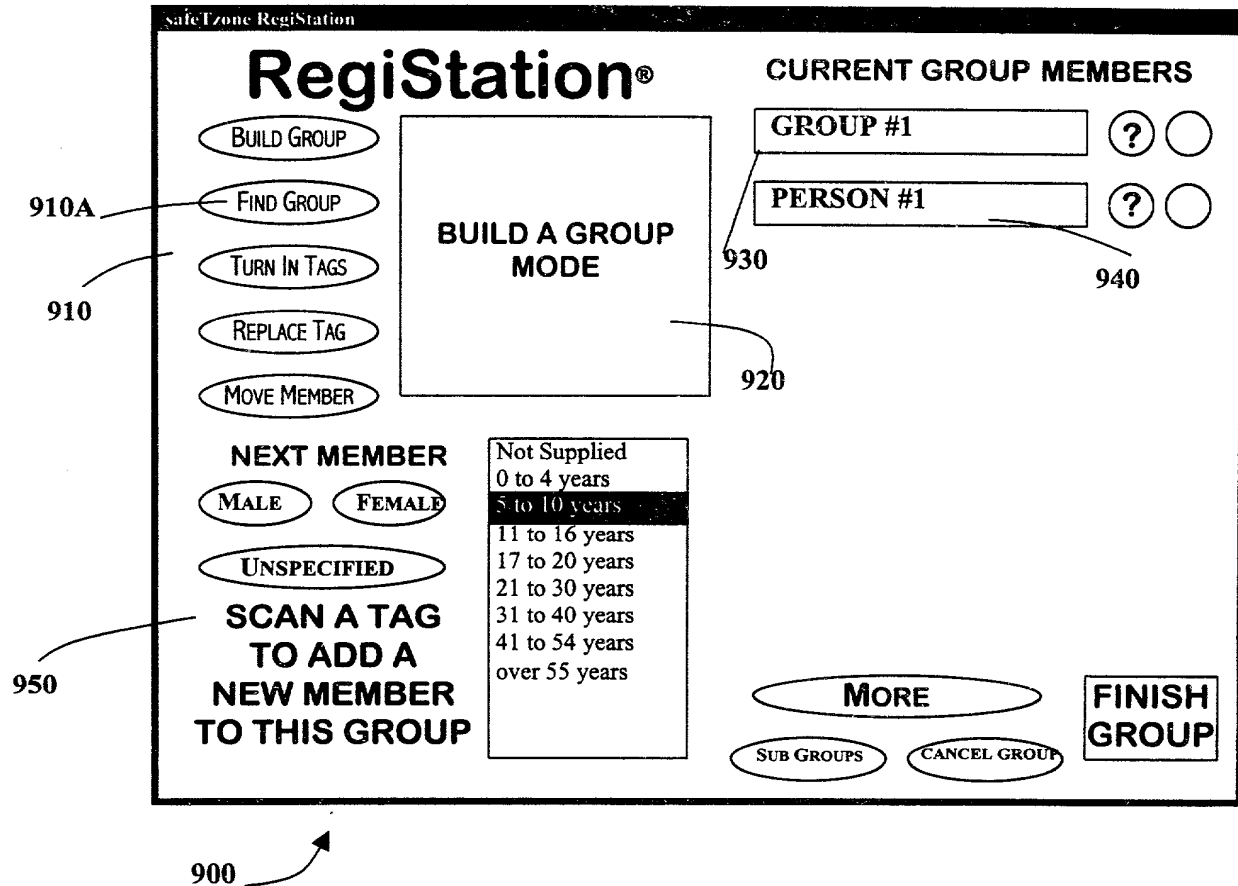


808

THE ID STATION RESPONDS WITH A VOICE AND TEXT MESSAGE INSTRUCTING THE USER THAT A SECURITY GUARD IS BEING DISPATCHED TO THE LOST PARTY AND THAT THE USER SHOULD WAIT AT THE ID STATION.

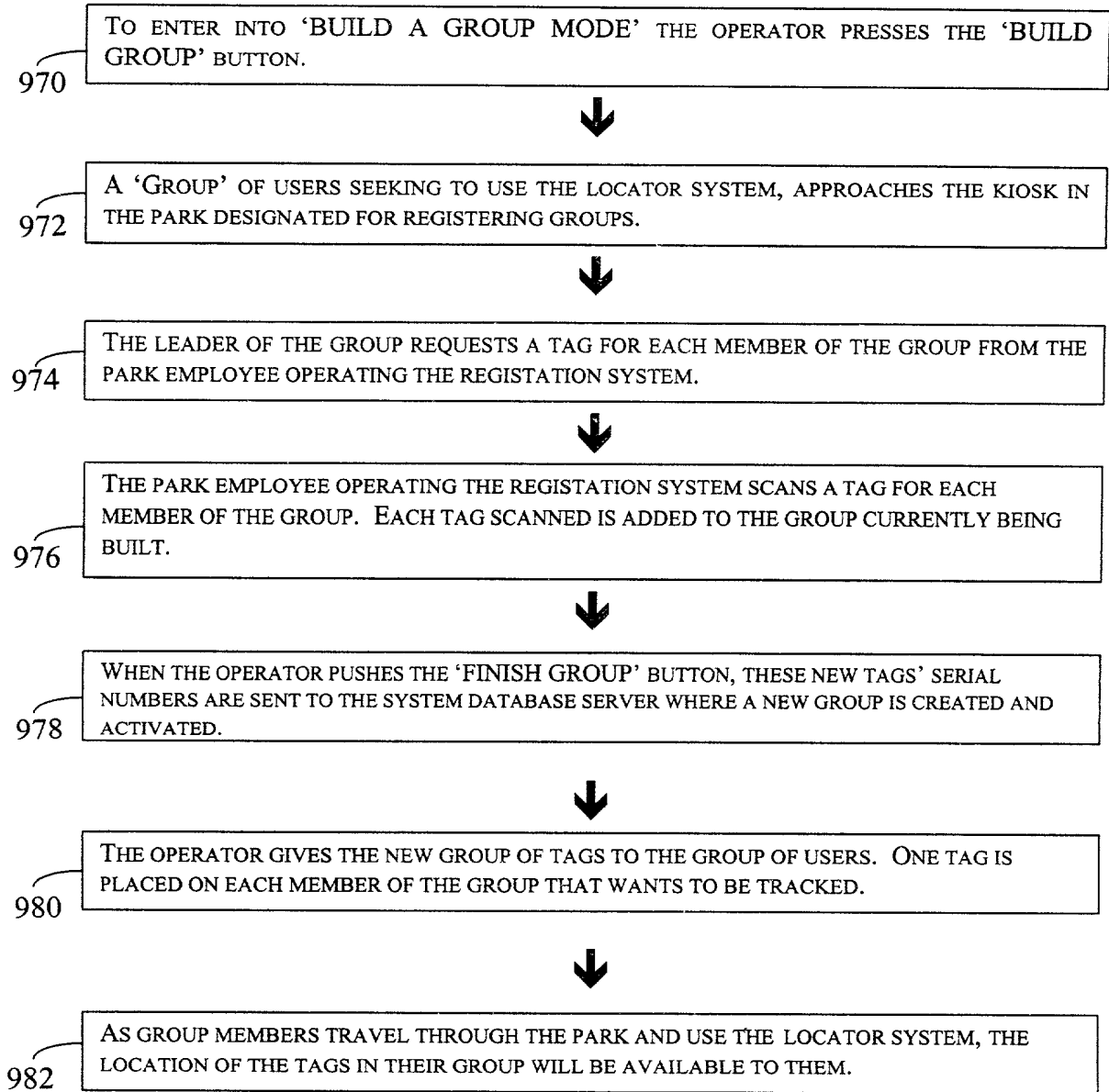
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FIG. 9A



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FIG. 9B



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FIG. 10A

safe Zone RegiStation

RegiStation®

BEGINNING A NEW GROUP

? ☐

NO CURRENT MEMBERS ☐ ☐

FIND A GROUP MODE

910B BUILD GROUP

910 FIND GROUP

TURN IN TAGS

REPLACE TAG

MOVE MEMBER

NEXT MEMBER

MALE FEMALE

UNSPECIFIED

SCAN A TAG TO FIND AN EXISTING GROUP

920

Not Supplied

- 0 to 4 years
- 5 to 10 years
- 11 to 16 years
- 17 to 20 years
- 21 to 30 years
- 31 to 40 years
- 41 to 54 years
- over 55 years

900

FIG. 10B

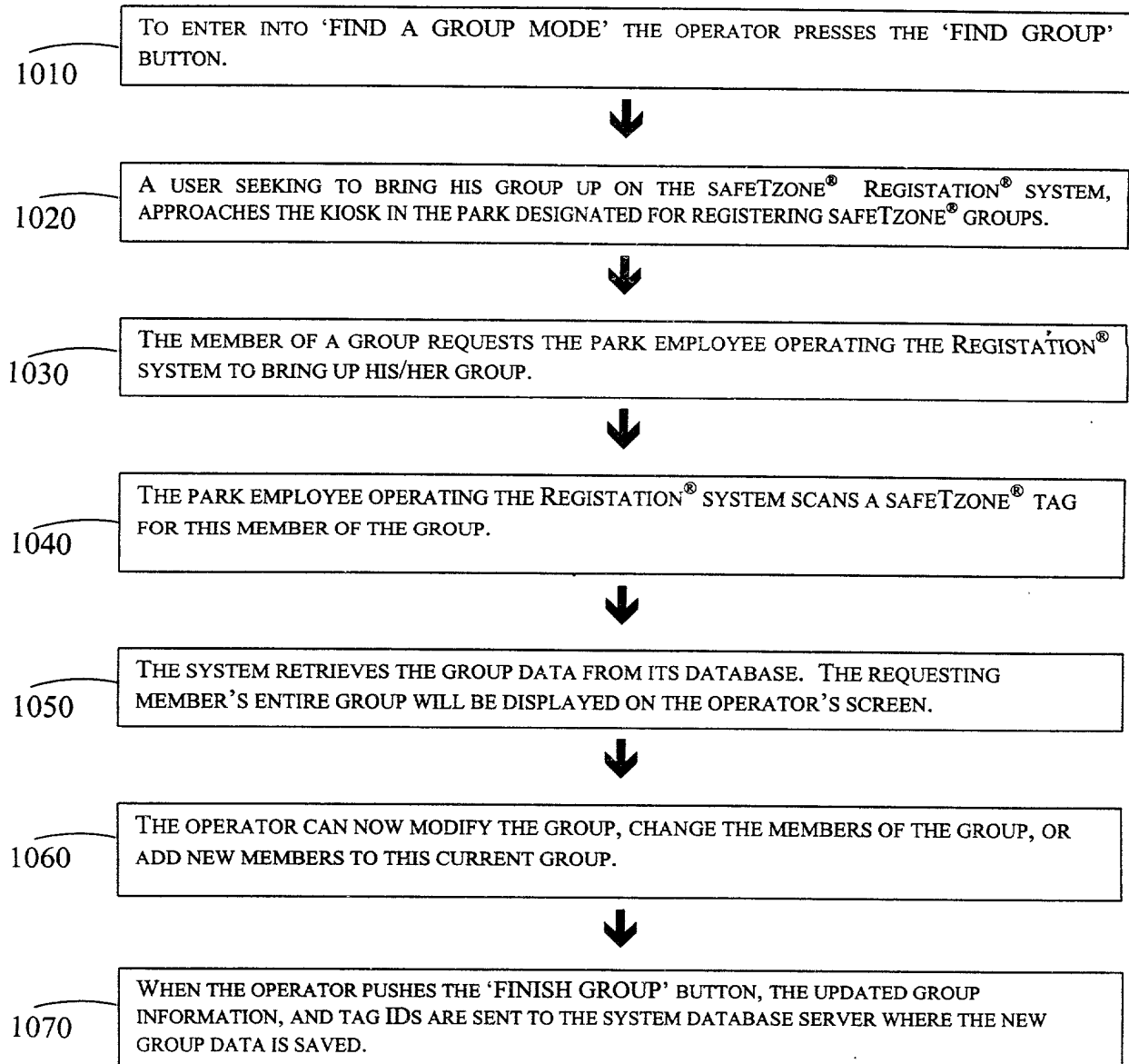


FIG. 11B

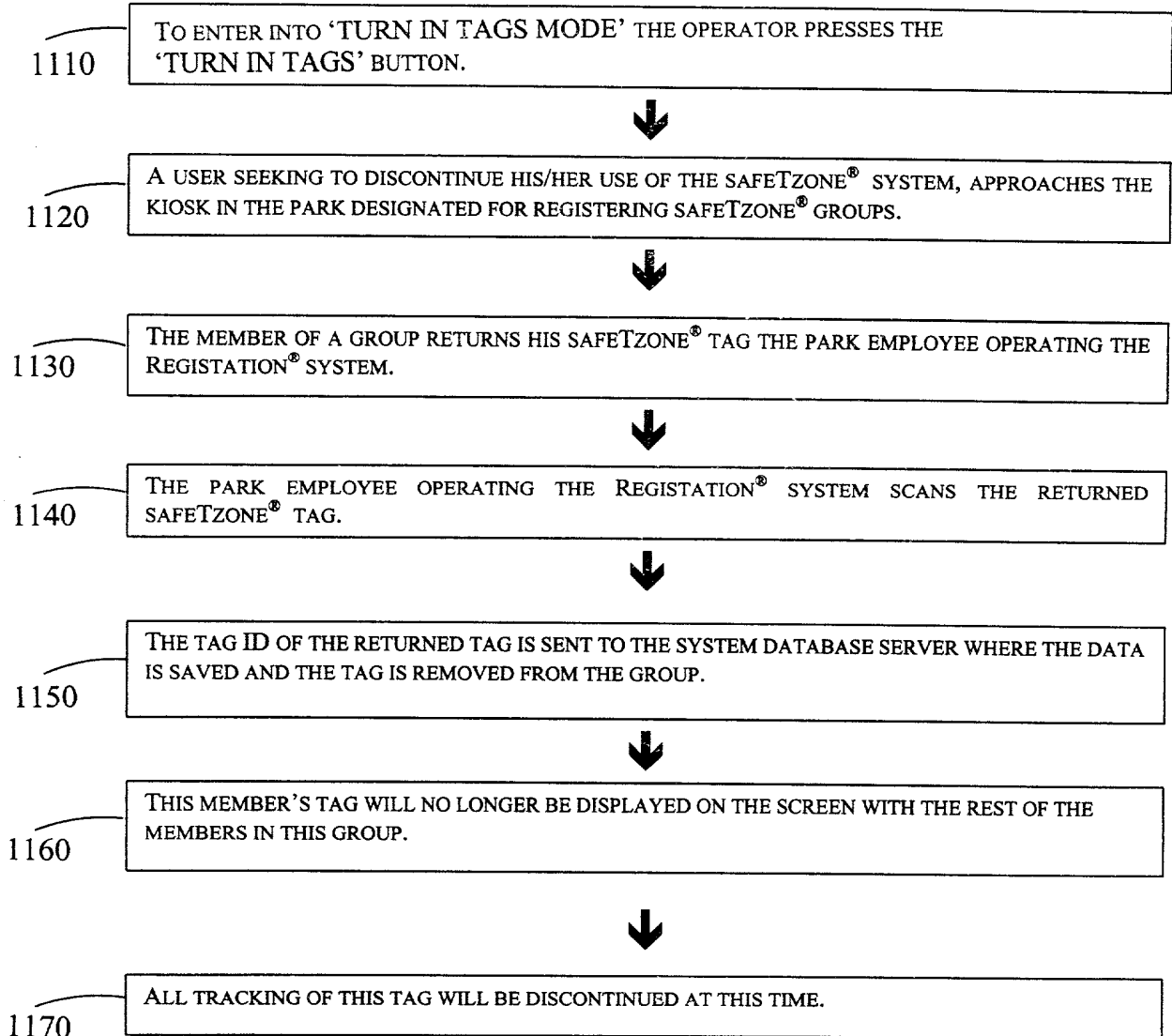


FIG. 11A

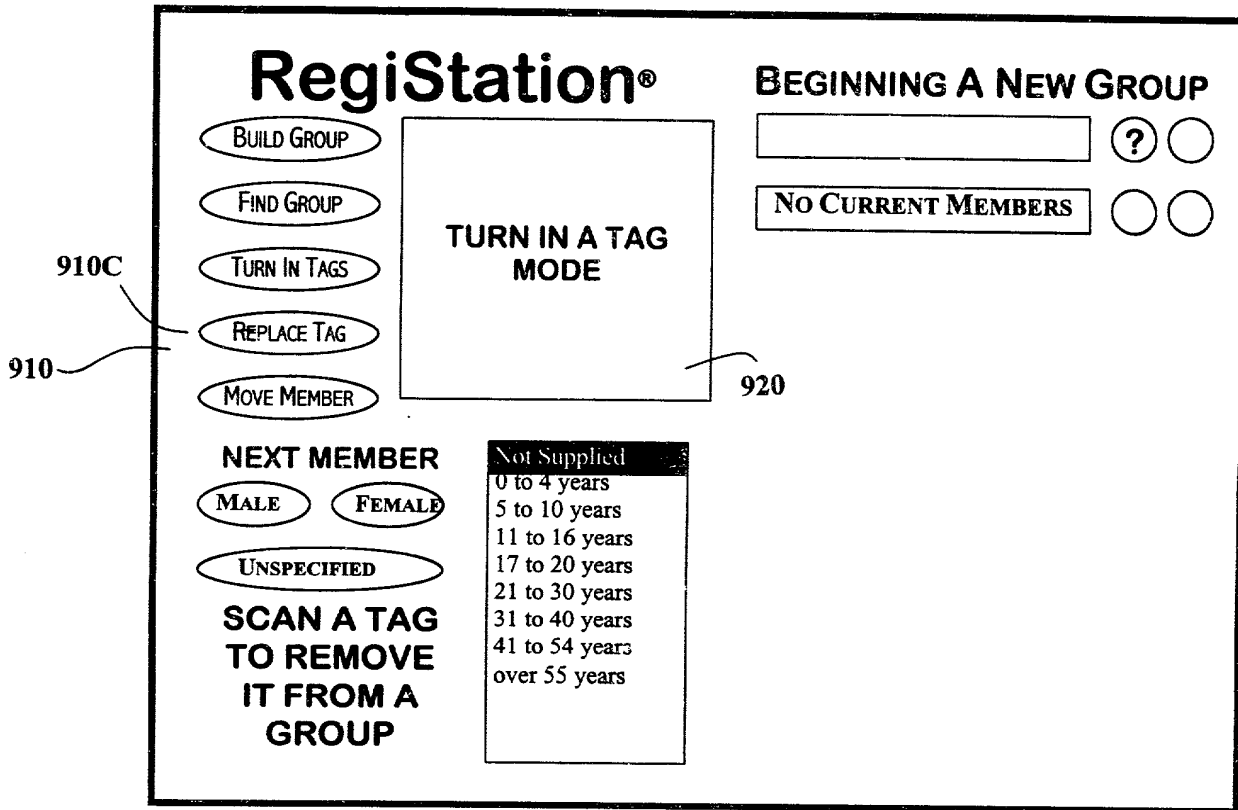


FIG 12A

RegiStation®

BEGINNING A NEW GROUP

? ☐

NO CURRENT MEMBERS ☐ ☐

SWAP A TAG MODE

910 **910D**

BUILD GROUP

FIND GROUP

TURN IN TAGS

REPLACE TAG

MOVE MEMBER

NEXT MEMBER

MALE **FEMALE**

UNSPECIFIED

SCAN THE TAG THAT YOU WANT TO REPLACE

920

Not Supplied *

0 to 4 years

5 to 10 years

11 to 16 years

17 to 20 years

21 to 30 years

31 to 40 years

41 to 54 years

over 55 years

900

FIG. 12B

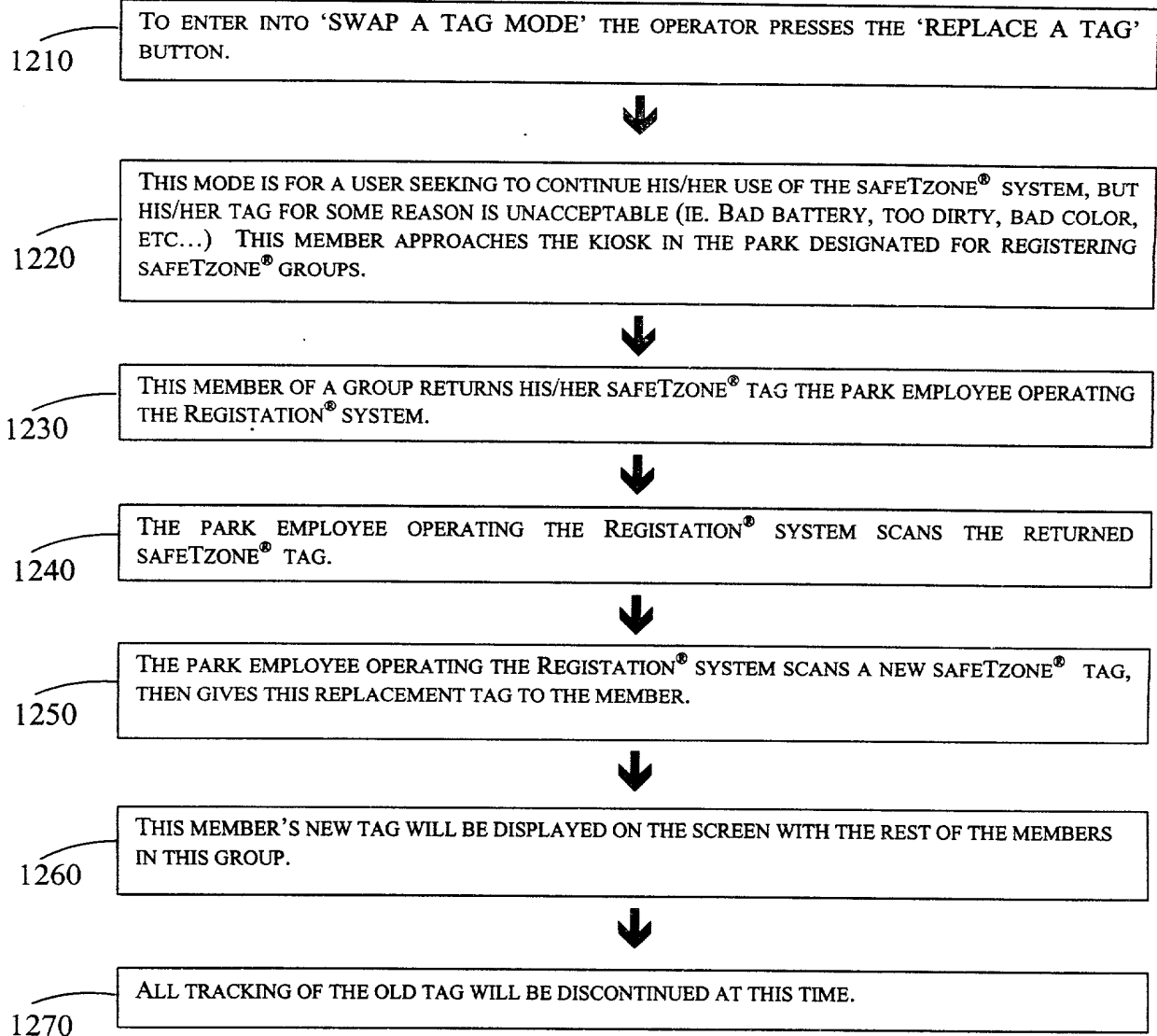


FIG. 13A

RegiStation®

BEGINNING A NEW GROUP

? ☐

NO CURRENT MEMBERS ☐ ☐

CHANGE GROUPS MODE

910

910E

920

NEXT MEMBER

MALE **FEMALE**

UNSPECIFIED

SCAN THE TAG OF THE MEMBER TO CHANGE

Not Supplied

0 to 4 years
5 to 10 years
11 to 16 years
17 to 20 years
21 to 30 years
31 to 40 years
41 to 54 years
over 55 years

900

FIG. 13B

